

Steeper Lithium Polymer Battery BBI-2200s Technical Information



The Steeper Lithium Polymer battery is designed to power a range of myoelectric hands. It may also be suitable for use with other manufacturers' products although no claims are made for its use in these applications.

This product is supplied with a removable shrink fit coating, allowing the cells to be split for easier fitting in the prosthesis.

Battery part no: BBI-2200s

Size: 18.5mm x 36.5mm x 70mm

or 18.5mm x 18.5mm x 70mm x2 when split

Mass: 90gm

Capacity: Typical: 2200mAh

Voltage: Nominal 7.4V, Min 6V, Max 8.4V

Current: Max 4.4A

Installation

When the battery is being discharged the surface of the battery can reach temperatures of up to 45°C.

The battery should be placed in the socket so that it will not heat the residual limb or leave any part of the socket that the residual limb comes into contact with at a raised temperature.

Please ensure the battery switch/charging point is fitted between the hand and battery at all times as detailed in the technical manual.

One fully charged battery can provide power to a myoelectric hand for more than a day (for most active prostheses users). We recommend the battery is charged each night so that a regular charging pattern is established and the user starts each day with a fully charged battery.

Fabrication dummies are provided to aid manufacture of the socket. If the battery is in storage it should be charged at least once every six months.



Precautions

To prevent a possibility of the battery leaking, heating or exploding please observe the following precautions:

- Do not immerse the battery in water or other liquid.
- Do not use or leave the battery near a heat source such as fire or heater.
- When recharging, only use the specified battery charger.
- Do not discard the battery in fire or expose it to a flame.
- Do not transport or store the battery together with metal objects.
- Do not strike, throw, drop or damage the battery.
- Do not try to pierce, disassemble or modify the battery.

- Do not charge the battery whilst the limb is being worn by the user.
- Do not put the battery into a microwave oven.
- Store batteries out of reach of children.
- Do not use or leave the battery at very high temperature (for example, in strong direct sunlight or in a vehicle in extremely hot weather). Otherwise, it can overheat, burn or its performance will degenerate and its service life will be reduced.
- Do not use it in a location where static electricity is great, otherwise, the safety devices may be damaged, causing potential safety issues.
- If the battery leaks and the electrolyte get into the eyes. Do not rub eyes, instead rinse the eyes with clean running water, and immediately seek medical attention. Otherwise, it may injure eyes or cause a loss of sight.
- If the battery does not charge properly or it is not lasting very long, stop using it and replace it with a new one.
- If the battery gives off an odour, generates extreme heat, becomes discoloured or deformed, or in any way appear abnormal during use, recharging or storage, immediately remove it from the prosthesis.



Important Information

The battery and its associated components are not waterproof and should not be exposed to moisture, as ingress of moisture may cause corrosion and potentially severe damage. The battery is fitted with a safety circuit to prevent the effects of unintended damage and eliminate potential hazard. Should the battery or charger fail to operate, please note the circumstances for diagnostic purposes.

These products are not designed to be opened and have no user accessible/or replaceable internal components. In the event of failure or suspected malfunction, please contact Steeper or your prosthetics supplier. These batteries must **ONLY BE CHARGED** with the appropriate charger and its power supply unit. Part number BBCBI or BBICC.

This battery must not be used with obsolete Steeper electrodes D12839 or D12839A or any other components not rated to the battery's maximum voltage. It is suitable for electrodes SEA200, SEA200C, ELEC50 and ELEC60.



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